



SHYAM BIHARI SR. SEC. PUBLIC SCHOOL

HOLIDAY HOMEWORK (2022-23)

Class – 9th

Note – Do all the work in your holiday notebooks.

Subject – Science		Duration – 22 – 27 May 2022 Online Meeting Date – 28/05/2022 (07:00 PM) Visit for Homework - https://www.sbpublicschool.com/notice/summer-holiday-homework/
Sr.No.	Topic	
	Physics	
1	Write definitions of the following – (Motion, Speed, Velocity, Acceleration, force, Inertia, mass, weight, gravitation)	
2	Derive three eq ⁿ of motion.	
3	Write Newton's law.	
4	Solve 20 Numerical of motion	
	Chemistry	
5	What is matter? Write its states & characteristic.	
6	Write any 20 Ques/Ans of Chap. 1 & 2.	
7	Exercise of Chap. 1, 2 & 3 with the help of Side book.	
8	Name 10 Scientist name and paste their picture on chart paper.	
	Biology	
9	Write short note – (a) Cells (b) Tissue (c) Pollution (d) Any disease	
10	Explain Ozone layer with labeled diagram.	
11	Make Diagram on A4 size sheet – (a) Plant Cell (b) Animal Cell (c) Human body cells	
Subject – English		Duration – 28 – 31 May 2022 Online Meeting Date – 01/06/2022 (07:00 PM)
Sr.No.	Topic	
	English Literature	
1	Beehive (Prose)- (a) Read the chapters – i. The Fun They Had ii. The Sound of Music iii. The little Girl iv. The Beautiful Mind and learn the question-answers of these chapters again. (Revision) (b) Also do the reading of the chapters: i. The Snake and the Mirror, ii. My childhood, iii. Reach for the top and try to find out the question-answers of these chapters yourself and write the answers in your holiday homework copy.	
2	Poetry – (a) Read the poems – i. The Road Not Taken,	

	ii. Wind, iii. Rain On The Roof and learn the question-answers of these poems again. (Revision) (b) Also do the reading of the Poems: i. The Lake of Innisfree ii. A Legend of the Northland and iii. No Men are Foreign and try to find the question-answers of these poems yourself and write the answers in your holiday homework copy.
3	Moments – (a) Read the chapters: i. The Lost Child, ii. The Adventures of Toto, iii. Iswaran the Storyteller once again and learn the question-answers of these chapters yourself. (b) Also do the reading of the chapters: i. In the Kingdom of Fools ii. The Happy Prince iii. The Last Leaf and try to find the question-answers of these chapters yourself and write them in your holiday homework copy.
	English Grammar –
4	Write the rules of all the tenses, i. Modals and Subject-verb concord with five-five examples of each. (Revision)
5	Write the story on any five topics in your own words: i. Grading system – A boon for students ii. Books are our best companions iii. The wonders of science iv. Bad effects of watching television v. A hot summer day vi. An ideal teacher vii. Need for education for all
Subject – Hindi	
Duration – 01 – 05 June 2022	
Online Meeting Date – 06/06/2022 (07:00 PM)	
Sr.No.	Topic
1	दो बैलों की कथा (पाठ-1) के प्रश्न उत्तर याद कीजिए और लिखिए।
2	ल्हासा की ओर (पाठ-2) के प्रश्न उत्तर याद कीजिए और लिखिए।
3	मुंशी प्रेमचंद के जीवन की विशेषताओं का एक चार्ट तैयार कीजिए।
4	कबीरदास जी की साखियाँ याद कीजिए और लिखिए।
5	कबीरदास जी के सबद को पढ़कर भाव स्पष्ट कीजिए।
6	ललचद के जीवन के बारे में एक चार्ट तैयार कीजिए।
7	मानसरोवर अनंत न जाए। अर्थ स्पष्ट कीजिए।
8	ललघद (पाठ-2) के 10 प्रश्नों के उत्तर याद कीजिए और लिखिए।
9	समास की परिभाषा याद कीजिए।
10	कर्मधारय और द्वन्द्व समास की परिभाषा याद करके लिखिए व दो-दो उदाहरण भी दीजिए।
11	वाक्य के प्रकार याद कीजिए।
12	परीक्षा के विषय में दो मित्रों का संवाद लिखिए।
13	विज्ञापन चार्ट तैयार कीजिए।
Subject – MATHEMATICS	
Duration – 06 – 12 June 2022	
Online Meeting Date – 13/06/2022 (07:00 PM)	
Sr.No.	Topic
1	Find 5 rational nos. b/w – (a) – 2 and 5 (b) – 2 and – 3 (c) $\frac{1}{2}$ and $-\frac{1}{2}$ (d) $\frac{1}{2}$ and $\frac{1}{3}$ (e) $-\frac{1}{2}$ and $-\frac{1}{3}$

2	Express each of the following in form $\frac{p}{q}$. (a) $\overline{0.1}$ (b) $\overline{0.2}$ (c) $\overline{0.3}$ (d) $\overline{0.35}$ (e) $\overline{0.585}$ (f) 0.99999 (g) $\overline{0.123}$
3	Define an irrational no.
4	Find two irrational no. b/w. (i) 0.5 and 0.55 (ii) $\frac{5}{7}$ and $\frac{9}{11}$
5	Evaluate – (i) $\left(\frac{2}{11}\right)^4 \times \left(\frac{11}{3}\right)^2 \times \left(\frac{3}{2}\right)^3$ (ii) $2^{55} \times 2^{60} - 2^{97} \times 2^{18}$ (iii) $\left(\frac{2}{3}\right)^2 \times \left(\frac{2}{5}\right)^{-3} \times \left(\frac{3}{5}\right)^2$ (iv) $\left[\left\{\left(625\right)^{-\frac{1}{2}}\right\}^{-\frac{1}{4}}\right]^2$
6	Show that – (i) $\left(\frac{x^b}{x^c}\right)^a \left(\frac{x^c}{x^a}\right)^b \left(\frac{x^a}{x^b}\right)^c = 1$ (ii) $\left(\frac{x^a}{x^b}\right)^{a+b} \left(\frac{x^b}{x^c}\right)^{b+c} \left(\frac{x^c}{x^a}\right)^{c+a} = 1$
7	Find value of x, if $5^{x-3} \times 3^{2x-8} = 225$.
8	Simplify – (i) $\frac{7^{n+2} - 3 \times 7^{n+1}}{20 \times 7^n - 2 \times 7^n}$ (ii) $\frac{5^{n+3} - 6 \times 5^{n+1}}{9 \times 5^n - 2^2 \times 5^n}$ (iii) $\frac{3^n \times 9^{n+1}}{3^{n-1} \times 9^{n-1}}$ (iv) $\frac{5 \times 25^{n+1} - 25 \times 5^{2n}}{5 \times 5^{2n+3} - (25)^{n+1}}$
9	Rationalize the denominator – (i) $\frac{2}{\sqrt{3}}$ (ii) $\frac{5}{\sqrt{3}-\sqrt{5}}$ (iii) $\frac{\sqrt{3}-1}{\sqrt{3}+1}$ (iv) $\frac{3+\sqrt{7}}{3-\sqrt{7}}$
10	If a and b are rational no. then find a and b. (i) $\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}}$ (ii) $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} = a + b\sqrt{15}$
11	If $x = 2 + \sqrt{3}$ find the value of (i) $x - \frac{1}{x}$ and (ii) $x^2 + \frac{1}{x^2}$
12	Write all identities of Ex. 2.5 and learn well.
13	Expand the following – (i) $(3x + 4y)^2$ (ii) $(3x - 4y)^2$ (iii) $(x + 5)(x - 3)$
14	If $3x + 2y = 12$ and $xy = 6$ find the value of $9x^2 + 4y^2$.
15	If $x + \frac{1}{x} = 11$ find $x^2 + \frac{1}{x^2}$
16	Expand the following - - (i) $(9x + 2y + z)^2$ (ii) $(x - 2y - 3z)^2$ (iii) $(-2x + 5y - 3z)^2$
17	Factorise – (i) $9x^2 + 4y^2 + 16z^2 + 12xy - 16yz - 24xz$ (ii) $25x^2 + 16y^2 + 4z^2 - 40xy + 16yz - 20xz$
18	Evaluate – (i) $(1002)^3$ (ii) $(999)^3$
19	Write all definitions, axioms and postulates of Euclid's.
20	Write two solutions of (i) $3x + 4y = 7$ (ii) $x = 6y$
21	Plot the following points in the cartesian plane and also write the quadrant on which they lies. (i) (2, 5) (ii) (4, -3) (iii) (-5, -7) (iv) (7, -4) (v) (-3, 2) (vi) (7, 0) (vii) (-4, 0) (viii) (0, 7) (ix) (0, 0) (x) (0, -4)
Subject – Computer	
Duration – 13 – 15 June 2022	
Online Meeting Date – 16/06/2022 (07:00 PM)	
Sr.No.	Topic
1	Digital India What to do: Design a poster on the topic “Make in India” in MS WORD. Where to do: Mail the activity on the email ID: mapsankisha9@gmail.com Subject of the mail should be your name Class & sec (e.g Riya Verma 9A) Parameters: Creativity, Originality, Overall presentation File Work (as per the instructions)
2	Explore more about ICT tools on the internet and create a PowerPoint presentation on the topic “Different ICT tools”.

3	Design and Prepare a PowerPoint presentation on the topic different input devices explain different types of input devices with the help of pictures and also try to include all the latest input devices. Incorporate animation effects in your presentations to make it more interesting.
Subject – Social Science	Duration – 16 – 22 June 2022 Online Meeting Date – 23/06/2022 (07:00 PM)
Topic	
Very Short Answer <ol style="list-style-type: none"> 1. What is standard meridian of India? 2. What is the Total length and breadth of India? 3. Do you Justify Indian ocean’s name after India? 4. Which Ideas from India could reach the world? 5. How many states and union Territories does India have? 6. Which is the smallest and largest state of India area wise? 7. Which Kharif and Rabi crops are grown in Palampur? 8. What was the benefit of electricity in Palampur? 9. What is called working capital? 10. What is the fixed capital? 	
Short Answer – <ol style="list-style-type: none"> 11. What do you know about size of India? 12. Why is the different between the duration of day and night hardly felt at Kanyakumari but not so in Kashmir? 13. What are India’s unique locational feature? 14. What all facilities are available in the village? 15. What do you understand by the term green revolution? 16. How did spread of electricity help farmers in Palampur? 17. Differentiate between physical and human capital? 18. Is it important to increase the area under irrigation and why? 	
Long Answer – <ol style="list-style-type: none"> 19. What are the merits and demerits of green revolution? 20. Which non – farm activities are practiced in Palampur? Write a short note? 21. How has India developed relationship with the world through the land route? 22. Why 82°31’ E has been us the standard meridian of India? 	
Mapping – <ol style="list-style-type: none"> 23. On the given outline political map of India locate the following – <ol style="list-style-type: none"> i. A neighboring country lying in Arabian sea. ii. Myanmar iii. An Indian state sharing border with China. 24. Draw a chart on conversation of Dala and Ramkali. 	